

Vers 1.8	sion	Revision Date: 14.12.2023		S Number: 92912-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020	
SEC	TION 1	<b>IDENTIFICATION</b>				
Product name		:	Dexamethasone (0.28%) Formulation			
	Other means of identification		:	Dexadreson (A001421) DEXADRESON INJECTION (52298)		
	Manufa	acturer or supplier's o	deta	ils		
	Company		:	MSD		
	Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
	Telepho	one	:	908-740-4000		
	Emergency telephone		:	1-908-423-6000		
	E-mail address		:	EHSDATASTEWARD@msd.com		
Recommended use of the cl				ical and restriction	ons on use	
Recommended use Restrictions on use		:	Veterinary produ Not applicable	ct		

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements Hazard Statements	:	H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	<b>Prevention:</b> P273 Avoid release to the environment.
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards which do not r	es	ult in classification

### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture Components



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Che	emical name		CAS-No.	Concentration (% w/w)
Ben	izyl alcohol		100-51-6	>= 1 -< 5
Dex	amethasone		50-02-2	>= 0,25 -< 0,3

### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



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SECTION	6. ACCIDENTAL RELE	AS	E MEASURES				
tive e	onal precautions, protec- quipment and emer- / procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).				
Envir	Environmental precautions		Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containmen oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.				
	Methods and materials for containment and cleaning up		<ul> <li>cannot be contained.</li> <li>Soak up with inert absorbent material.</li> <li>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materian be pumped, store recovered material in appropriate container.</li> <li>Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and ite employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> <li>Sections 13 and 15 of this SDS provide information regard certain local or national requirements.</li> </ul>				

### SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	Keep in properly labeled containers. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Dexamethasone	50-02-2	TWA	10 µg/m3 (OEB 3)	Internal			
	Further inform	Further information: Skin					
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal			
Engineering measures	technologies less quick c All engineer design and protect prod Containmen are required the compou containmen	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.					
Personal protective equipme	ent						
Respiratory protection Filter type Hand protection	exposure as recommend	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type					
Material	: Chemical-re	sistant gloves					
Remarks Eye protection	<ul> <li>Consider double gloving.</li> <li>Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or</li> </ul>						
Skin and body protection	: Work uniforn Additional b task being p disposable s Use approp	aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing					
Hygiene measures	: If exposure eye flushing working plac When using Wash conta The effective engineering appropriate	contaminated clothing. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the					



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			use of administrat	tive controls.					
SECTION	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES								
Арр	earance	:	liquid						
Colo	r	:	clear						
Odo	r	:	No data available	9					
Odo	r Threshold	:	No data available	9					
рН		:	No data available	9					
Melt	ing point/freezing point	:	No data available	9					
Initia rang	I boiling point and boiling e	:	No data available	9					
Flas	h point	:	No data available	9					
Eva	Evaporation rate Flammability (solid, gas) Flammability (liquids)		No data available	9					
Flam			Not applicable						
Flam			No data available	9					
	er explosion limit / Upper mability limit	:	No data available	9					
	er explosion limit / Lower mability limit	:	No data available	9					
Vap	or pressure	:	No data available	9					
Rela	tive vapor density	:	No data available	9					
Rela	tive density	:	No data available	9					
Den	sity	:	No data available	9					
	bility(ies) Vater solubility	:	No data available	9					
	ition coefficient: n- nol/water	:	Not applicable						
	noi/water ignition temperature	:	No data available	9					
Dece	omposition temperature	:	No data available	9					
	osity ′iscosity, kinematic	:	No data available	9					
Expl	osive properties	:	Not explosive						



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Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.	
Molecu	lar weight	:	No data available		
Particle	size	:	Not applicable		
SECTION 1	0. STABILITY AND RE	EAC	ΤΙΛΙΤΑ		
Possibi tions	al stability lity of hazardous reac-	: :	Stable under nor Can react with st	a reactivity hazard. mal conditions. rong oxidizing agents.	
	ons to avoid atible materials	:	None known. Oxidizing agents		
	ous decomposition	:		composition products are known.	
SECTION 1	1. TOXICOLOGICAL I	NFC	ORMATION		
Informa exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact		
Acute t Not clas	t <b>oxicity</b> ssified based on availa	ble	information.		
Produc	<u>:t:</u>				
Acute c	oral toxicity	:	Acute toxicity estine Method: Calculation	mate: > 5.000 mg/kg on method	
Acute ir	Acute inhalation toxicity		Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
<u>Compo</u>	onents:				
Benzyl	alcohol:				
Acute o	oral toxicity	:	LD50 (Rat): 1.620	mg/kg	
Acute ir	nhalation toxicity	:	LC50 (Rat): > 4,17 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist	
Dexam	ethasone:				
Acute c	oral toxicity	:	LD50 (Rat): > 2.00	00 mg/kg	
			LD50 (Mouse): > 0	6.500 mg/kg	
Acute to	oxicity (other routes of	:	LD50 (Rat): 14 mg	g/kg	
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adm	administration)		Application Route	: Subcutaneous	
-	corrosion/irritation	ilable i	nformation.		
<u>Com</u>	nponents:				
Ben	zyl alcohol:				
Spec Meth Resi	nod	:	Rabbit OECD Test Guide No skin irritation	eline 404	
	amethasone:				
Spec Resi		:	Rabbit Mild skin irritation		
Not	ous eye damage/eye i classified based on ava aponents:				
Spec	zyl alcohol:		Rabbit		
Res Meth	ult	:		reversing within 21 days eline 405	
Dexa	amethasone:				
Spec Resi		:	Rabbit Mild eye irritation		
Res	piratory or skin sensit	tizatio	n		
	sensitization				
	classified based on ava	ilable i	nformation.		
	piratory sensitization classified based on ava	ilable i	nformation.		
	ponents:				
	zyl alcohol:				
Test	Туре	:	Maximization Tes	t	
Rout Spec	tes of exposure cies	:	Skin contact Guinea pig		
Meth Resi	nod	:	OECD Test Guide negative	eline 406	
	<b>m cell mutagenicity</b> classified based on ava	ulabla i	nformation		
		IIIaDIE			

### Components:

### Benzyl alcohol:

### SAFETY DATA SHEET



sion	Revision Date: 14.12.2023		OS Number: 92912-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020	
Genot	toxicity in vitro	:	Test Type: Back Result: negative	erial reverse mutation assay (AMES)	
Genot	toxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative		
Dexa	methasone:				
Genot	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)	
			Test Type: in vi Test system: m Result: negative	ouse lymphoma cells	
Genot	toxicity in vivo	:	Test Type: Micr Species: Mouse Application Rou Result: negative	e te: Oral	
Not cl <u>Comp</u>	nogenicity assified based on ava ponents:	ailable	information.		
Not cl Comp Benzy Specie Applic	assified based on ava <u>conents:</u> yl alcohol: es cation Route sure time od	ailable : : :	information. Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451	
Not cl Comp Benzy Specie Applic Expos Metho Resul	assified based on ava <u>conents:</u> yl alcohol: es cation Route sure time od t	ailable : : :	Mouse Ingestion 103 weeks OECD Test Gui	deline 451	
Not cl Comp Benzy Specie Applic Expos Metho Resul	assified based on ava <u>conents:</u> yl alcohol: es cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451	
Not cl Comp Benzy Specie Applic Expos Metho Result Repro	assified based on ava <u>conents:</u> yl alcohol: es cation Route sure time od t coductive toxicity	:	Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451	
Not cl Comp Benzy Specie Applic Expos Metho Resul Repro Not cl <u>Comp</u>	assified based on avaination of the second s	:	Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451	
Not cl Comp Specie Applic Expose Methor Result Repro Not cl Comp Benzy	assified based on avaination of the second s	:	Mouse Ingestion 103 weeks OECD Test Gui negative information. Test Type: Fert Species: Rat Application Rou Result: negative	lity/early embryonic development te: Ingestion	
Not cl Comp Specie Applic Expose Methor Result Repro Not cl Comp Effect	assified based on ava <u>conents:</u> yl alcohol: es cation Route sure time od t coductive toxicity assified based on ava <u>conents:</u> yl alcohol:	ailable	Mouse Ingestion 103 weeks OECD Test Gui negative information. Test Type: Fert Species: Rat Application Rou Result: negative Remarks: Base	lity/early embryonic development te: Ingestion d on data from similar materials pryo-fetal development te: Ingestion	
Not cl Comp Specie Applic Expose Methor Result Repro Not cl Comp Benzy Effect	assified based on avaination of the second s	ailable	Mouse Ingestion 103 weeks OECD Test Gui negative information. Test Type: Fert Species: Rat Application Rou Result: negative Remarks: Base Test Type: Emb Species: Mouse Application Rou	lity/early embryonic development te: Ingestion d on data from similar materials pryo-fetal development te: Ingestion	



ersion 8	Revision Date: 14.12.2023	SDS Number: 5492912-00009	Date of last issue: 04.12.2023 Date of first issue: 10.03.2020
		Developmental	e te: Subcutaneous Toxicity: LOAEL: 6 mg/kg body weight developmental abnormalities., Cleft palate
		Developmental	te: Intramuscular Toxicity: NOAEL: 0,025 mg/kg body weight developmental abnormalities.
		Developmental	te: Intramuscular Toxicity: LOAEL: >= 0,062 mg/kg body weigh developmental abnormalities.
		Developmental	te: Subcutaneous Toxicity: LOAEL: >= 0,02 mg/kg body weight and visceral variations ., Retardations.
Repro sessr	oductive toxicity - As- nent	: May damage th	e unborn child.
Not c STO	<b>Γ-single exposure</b> lassified based on avail <b>Γ-repeated exposure</b> lassified based on avail		
-	ponents:		
Route Targe	<b>methasone:</b> es of exposure et Organs ssment		mmune system, thymus gland age to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
Spec NOAI Applie	EL cation Route sure time	: Rat : 1,072 mg/l : inhalation (dust : 28 Days : OECD Test Gui	
Dexa	methasone:		
Speci NOAI		: Rat : 0,0015 mg/kg : Oral : 7 d	
	sure time	. <i>i</i> u	

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## Dexamethasone (0.28%) Formulation

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Spee	cies	:	Rat	
LÒA		:	0,003 mg/kg	
	ication Route	:	Oral	
	osure time	:	90 d	
	et Organs	:		gland, thymus gland
Rem	arks	:	Significant toxic	ity observed in testing
Spee		:	Rat	
LOA		:	0,125 mg/kg	
	ication Route	:	Oral	
	osure time	:	6 Weeks	
	et Organs	:	Adrenal gland	
Rem	arks	:	Significant toxic	ity observed in testing
Spee	cies	:	Rat	
LOA	EL	:	0,4 mg/kg	
	ication Route	:	Oral	
	osure time	:	3 Months	
	et Organs	:	Immune system	
Rem	arks	:	Significant toxic	ity observed in testing
Spee	cies	:	Dog	
LOA		÷	8 mg/kg	
	ication Route	:	Oral	
	osure time	:	3 Months	
	et Organs	:	Immune system	
	arks	:		ity observed in testing
Not	iration toxicity classified based on availa erience with human exp			
Com	ponents:			
Dex	amethasone:			
	stion		Torgot Orgono:	
inge	Stion	·	Target Organs:	Immune system
			Target Organs:	
			Symptoms: mus	
	N 12. ECOLOGICAL INFO	וסר		
CHO	12. ECCEOGICAE INI		ATION	
Eco	toxicity			
<u>Com</u>	ponents:			
Ben	zyl alcohol:			
	city to fish		ICEO (Dimonho	les promoles (fethead minnew)): 460 mg/l
TUXI		•	Exposure time:	les promelas (fathead minnow)): 460 mg/l 96 h
T'	olity to donkale and athem			
	city to daphnia and other	:		magna (Water flea)): 230 mg/l
aqua	atic invertebrates		Exposure time:	48 n Test Guideline 202
			wethod: UECD	i est Guideline 202
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	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	est Guideline 201
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Dexam	ethasone:			
	Toxicity	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
		or (Chronic aquatic	:	1	
	toxicity) Toxicity	to microorganisms	:	EC50: > 1.000 mg Exposure time: 3 l Test Type: Respir Method: OECD Te	n ation inhibition
				NOEC: 1.000 mg/ Exposure time: 3 l Test Type: Respir Method: OECD Te	n ation inhibition
	Persist	ence and degradabili	ty		
	<u>Compo</u>	onents:			
	Benzyl	alcohol:			
	Biodegr	adability	:	Result: Readily bio Biodegradation: 9 Exposure time: 14	92 - 96 %



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2 0/10/1	<b>nethasone:</b> gradability	:	Result: Not readil Biodegradation: 4 Exposure time: 3, Method: OECD T	50 % 54 d
Bioaco	cumulative potential			
Comp	onents:			
-	<b>l alcohol:</b> on coefficient: n- l/water	:	log Pow: 1,05	
	<b>nethasone:</b> on coefficient: n- I/water	:	log Pow: 1,83	
	<b>ty in soil</b> a available			
	<b>adverse effects</b> a available			

#### SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

#### **IMDG-Code** Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

# Special precautions for user

Not applicable





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SECTION	15. REGULATORY IN	FORMATION				
Safet mixtu		mental regulations/le	egislation specific for the substance	or		
•	Argentina. Carcinogenic Substances and Agents : Not applicable Registry.					
	Control of precursors and essential chemicals for the : Not applicable preparation of drugs.					
The ingredients of this product are reported in the following inventories:						
DSL		: not determined				

not determined

#### **SECTION 16. OTHER INFORMATION**

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#### **Further information**

IECSC

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety	eChem Portal search results and European Chemicals Agen-
Data Sheet	cy, http://echa.europa.eu/

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-



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ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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